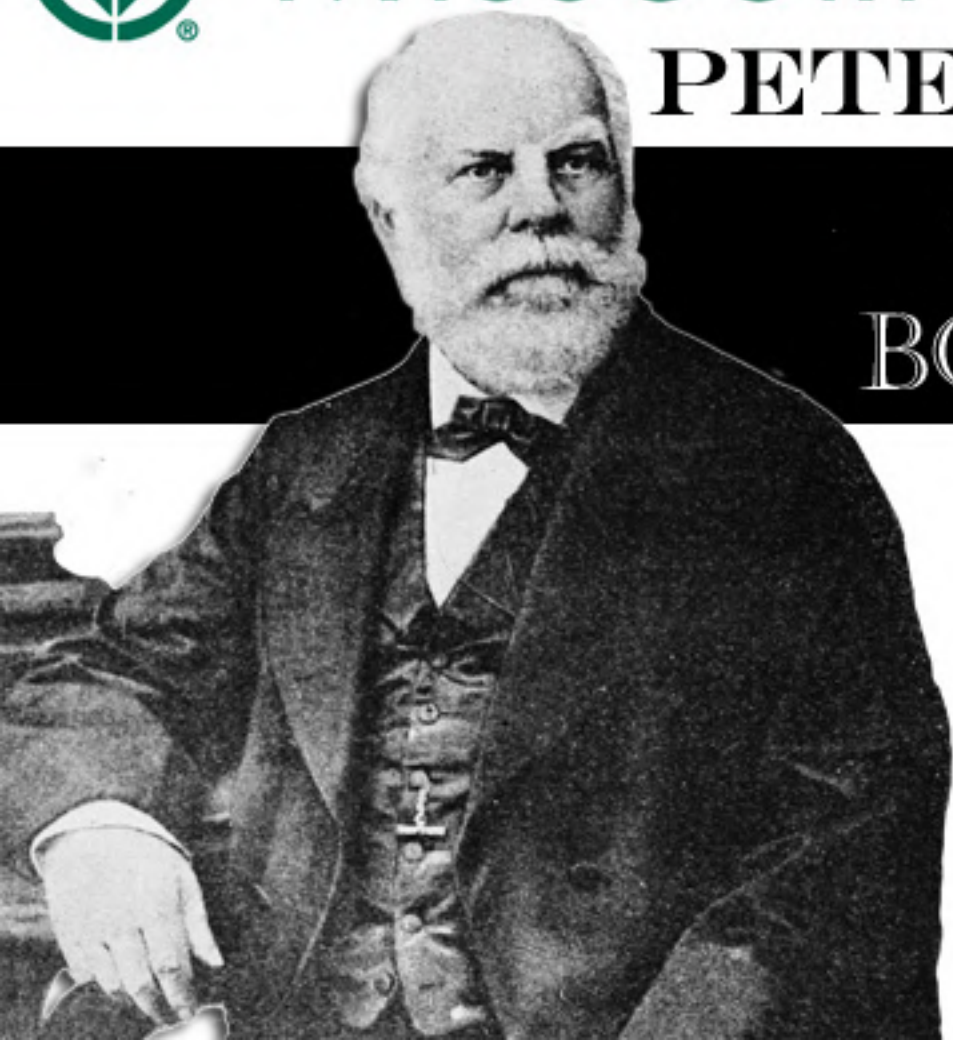


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BOTANICAL NOTEBOOKS



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12. Curt. p. 472

*C. pulchella* Eng. n. sp.

belonging to!

216

Afghanistan

(Enclosed 176-179)



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI  
BOTANICAL  
GARDEN



4512

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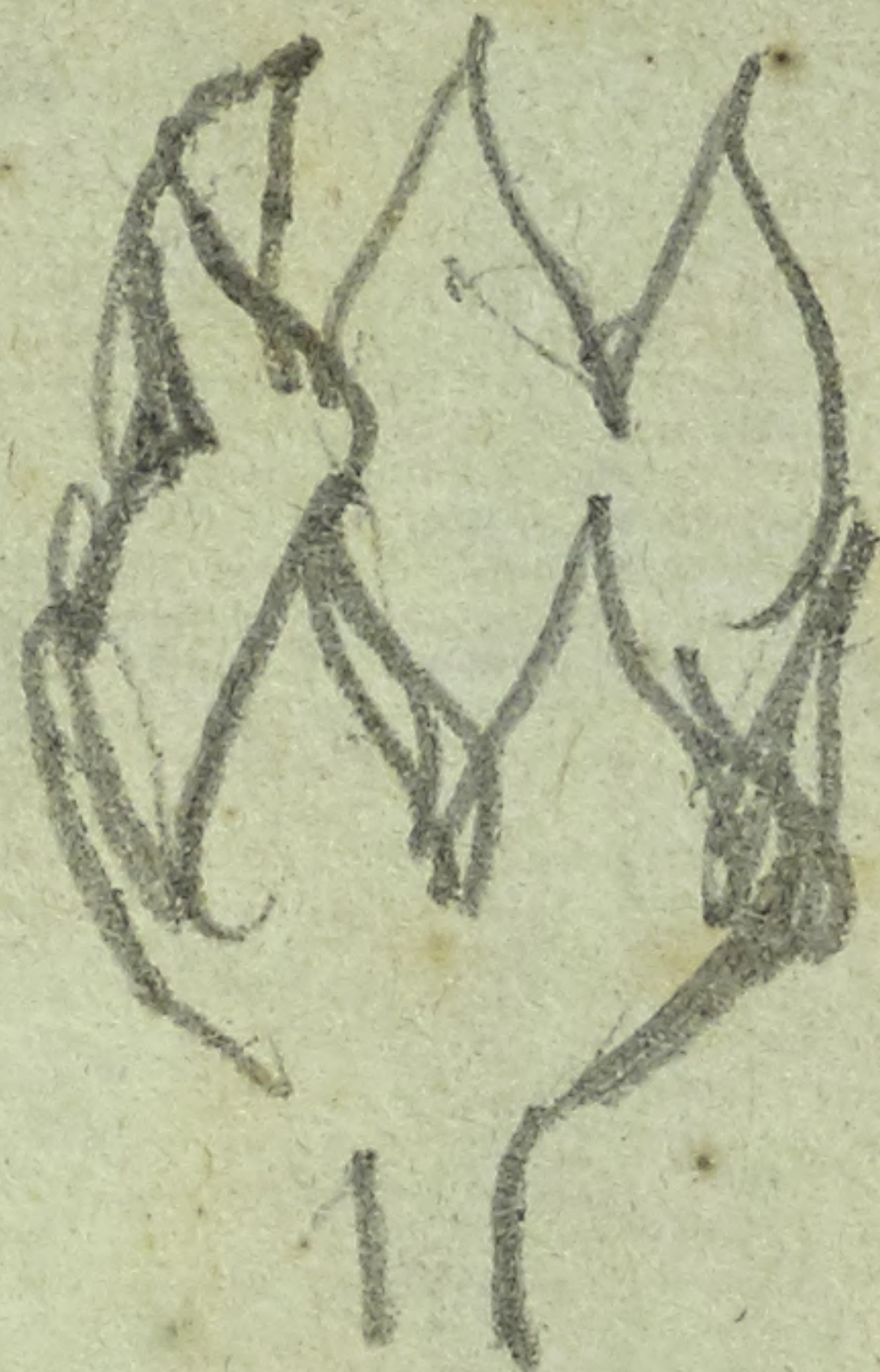
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July 1858



over pedicellate 2.2 Exhude  
Saxifraga Petroselinifolia



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cm

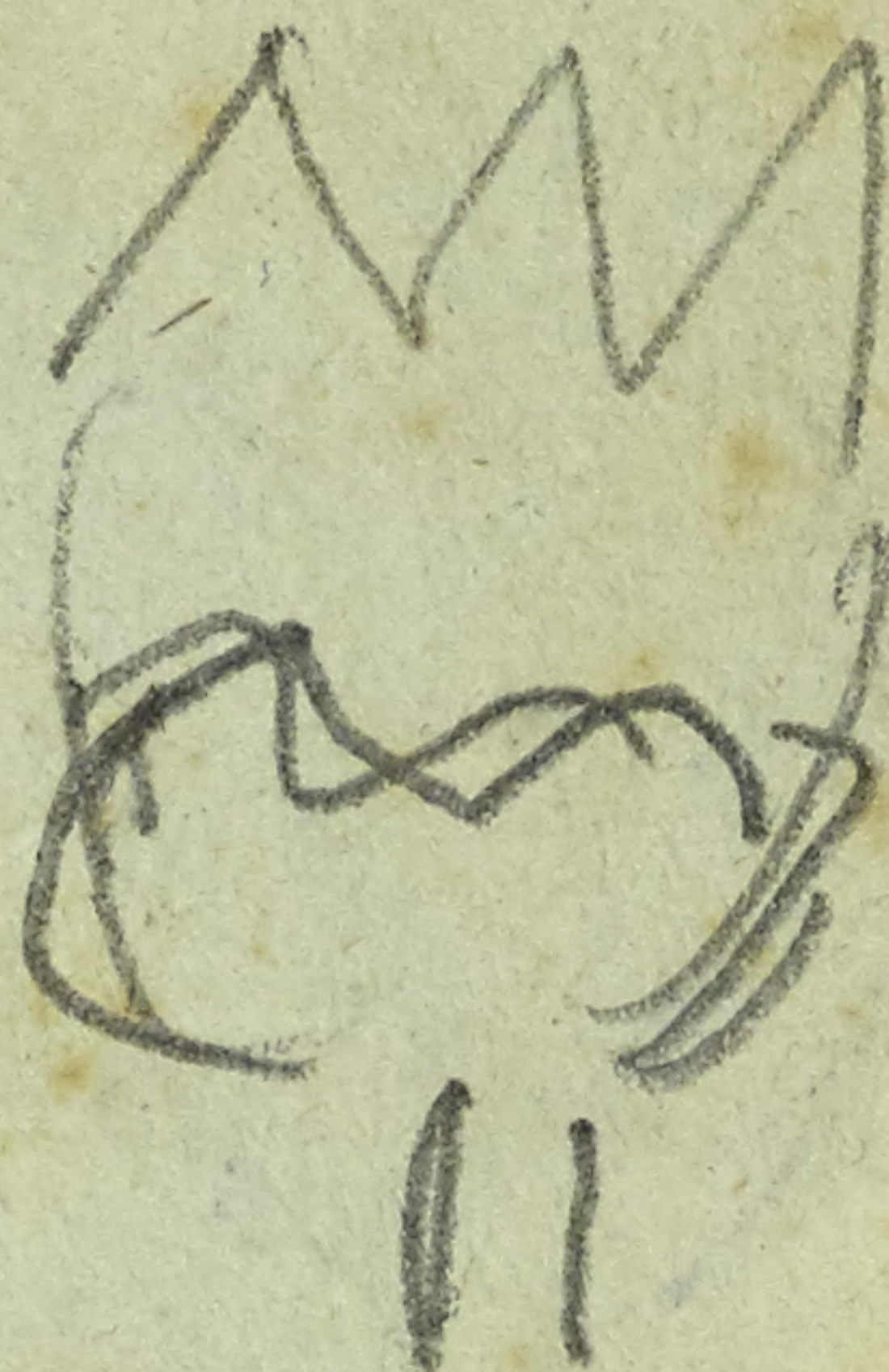
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GARDEN



pedicellate has  
short calyx



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4513

short x  
short



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cm

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GARDEN



Jan 1859

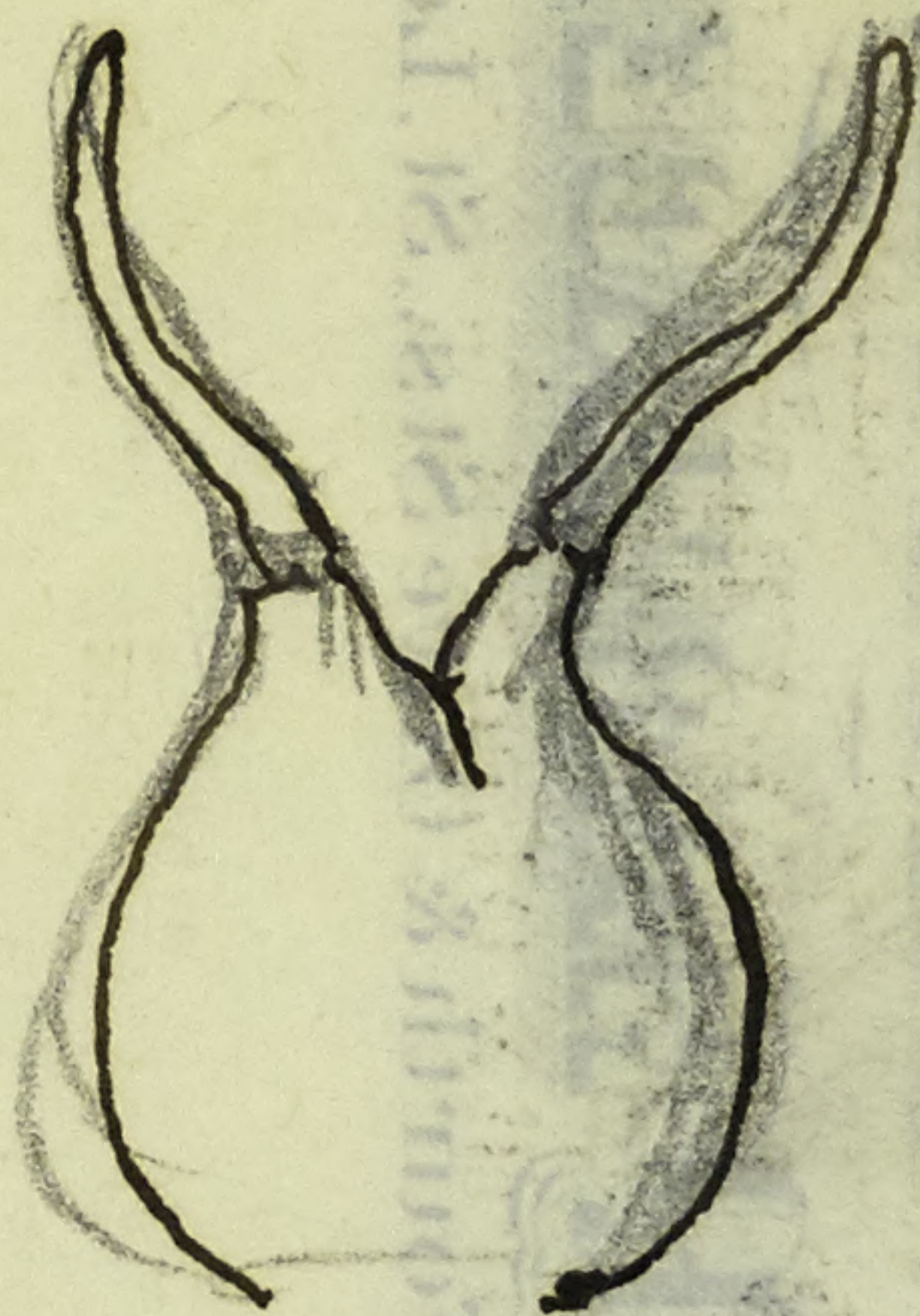
1859

Roschkei & Pulchella  
calyx profunde lobato

1.5



1.6



*Cuscuta asiatica*, Rivers

Albani  
Exhib. H. B. Patenb (1858)



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cm

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GARDEN



ALEX. LEITCH,

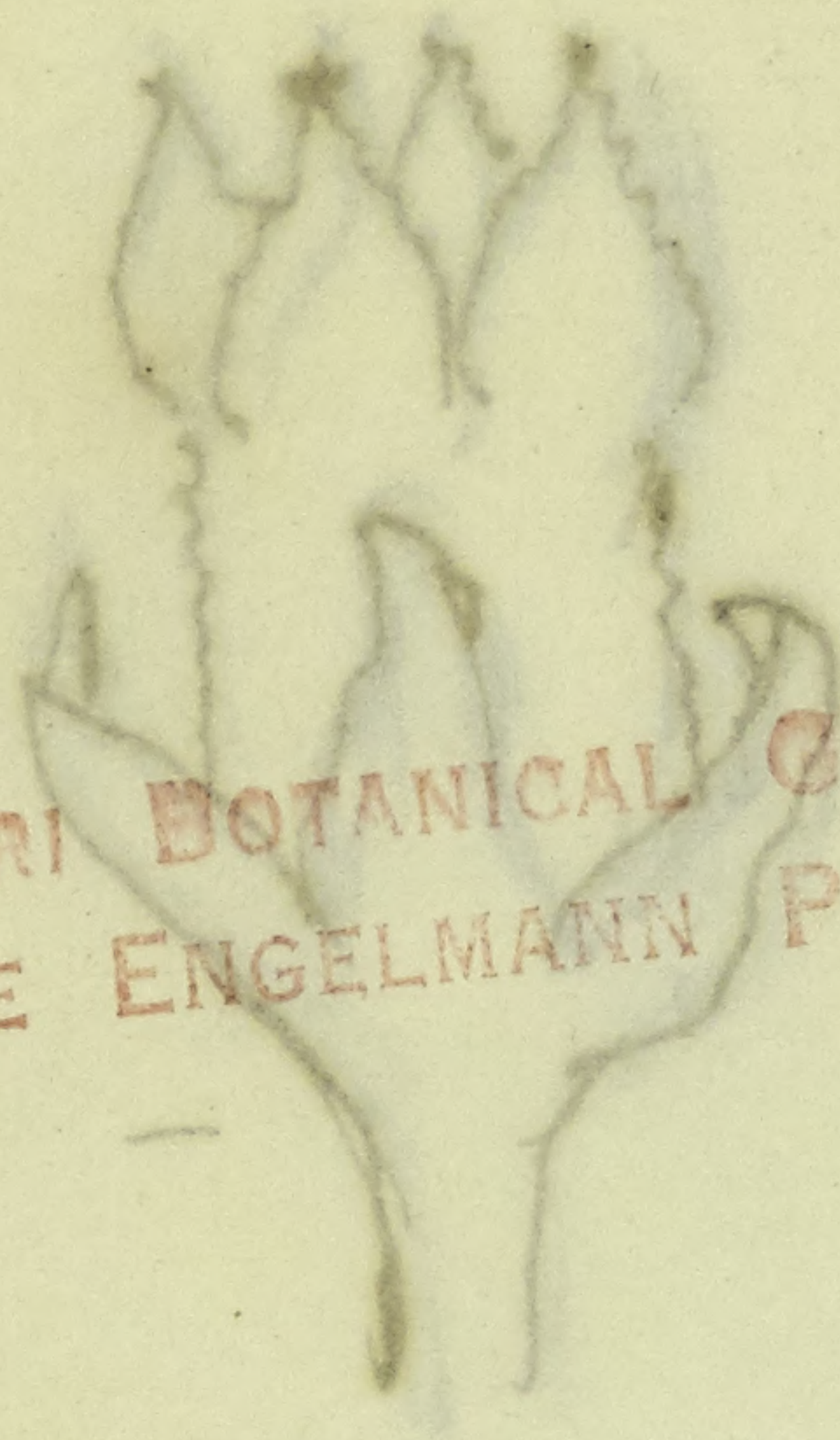
APOTHECARY & PHARMACEUTIST,

Marble Building, Cor. Fourth & Olive Sts., St. Louis, Mo.

4514

1881-5

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100  
7.9



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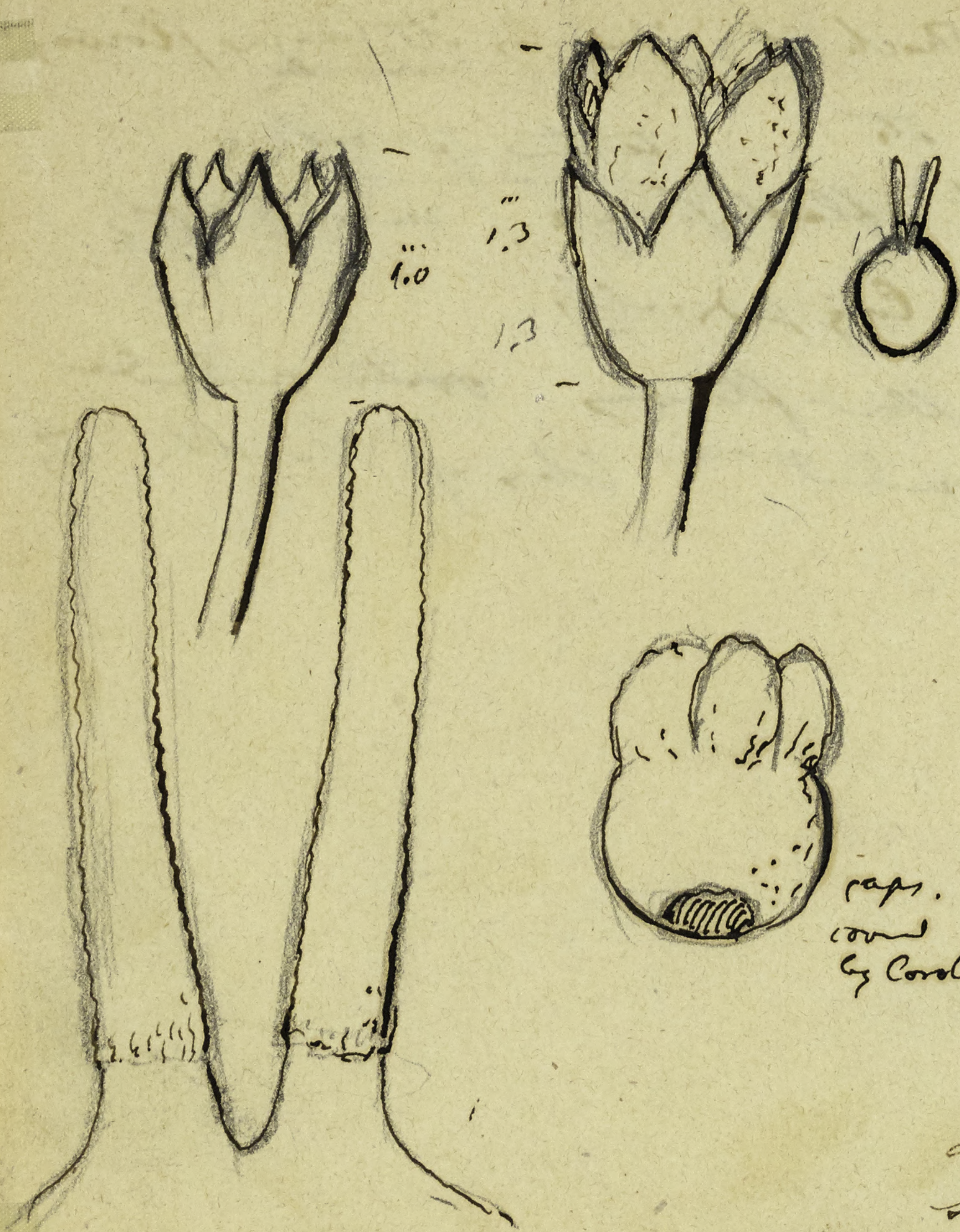
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BOTANICAL  
GARDEN



216.6.

Affghanistan, Griffith  
 Nos 688-691  
 on Alhaghi, Peganum etc.

*Cuscuta pulchella* n. sp.



filamentis pedicellatis fuscis  
 tubelli carnosissimi  
 calycis campanulati lobis brevibus  
 acutis tubo corollae aequantibus; lacini  
 corollae tubo brevibus, ovatis  
 apiculatis granulatis, crenulatisque  
 erectis s. patulis. Stam. brevibus,  
 antheris oblongis-ovatis filamentis subulatis  
 aequalibus; squamis filamentis fere  
 attingentibus, (circumscissis) fimbriatis  
 stylis (cum stigmatibus) ovario ovato  
 apice subronis aequalibus, fere totis  
 stigmatosis

caps.  
 ovum  
 by Corolla



0 1 2 3 4 5 6 7 8 9 10

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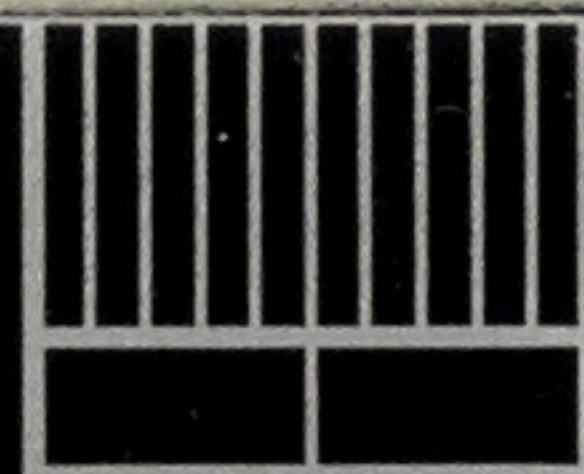
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 BOTANICAL  
 GARDEN



allied closely to *C. pedunculata*, from which it differs by its larger flowers,  
longer styles, much larger scales etc. texture of corolla  
from *C. arbutifolia* is ~~is~~ distinct by the flashy ~~only~~, more deeply  
conspicuous, when open flowers, long pedicels  
from *C. Kotschyana*. by the much smaller flowers ~~more~~  
acute triangular lobes of calyx, round lobes of corolla etc

MISSOURI BOTANICAL GARDEN  
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GARDEN



St Louis Dec 1846

Afghanistan  
Griffith  
688  
Hooker Herb. 22



better



Afghanistan  
Griffith  
689  
on Alhagi Maurorum  
Hook Hb. 21



best



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GARDEN



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13. Cur. p. 472

*C. petiolata* Ledeb.  
cinnab.

210.

(Enclosed 180-182)



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN



4517

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28. - 1883 (number 3)



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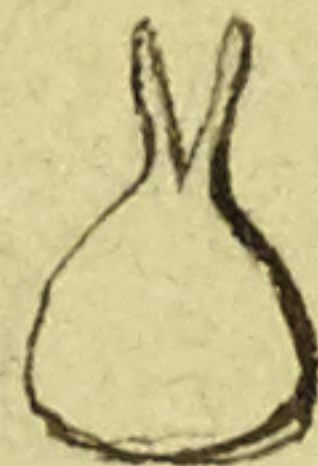
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GARDEN



i/  
*Cuscuta pedicellata* Ledeb.  
 Altai  
 Ledebour.

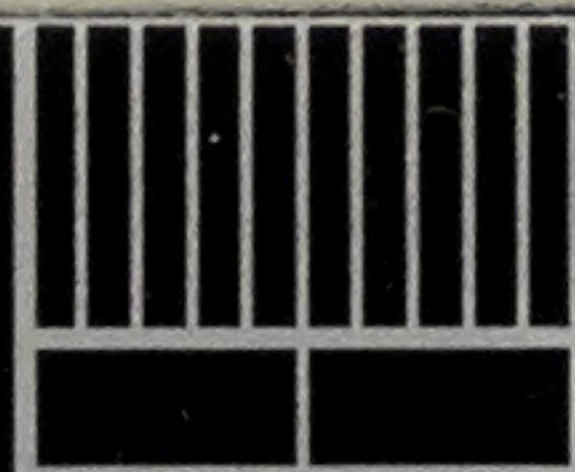


caps with  
 corolla



caps

Shan 1846



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 GARDEN



4518

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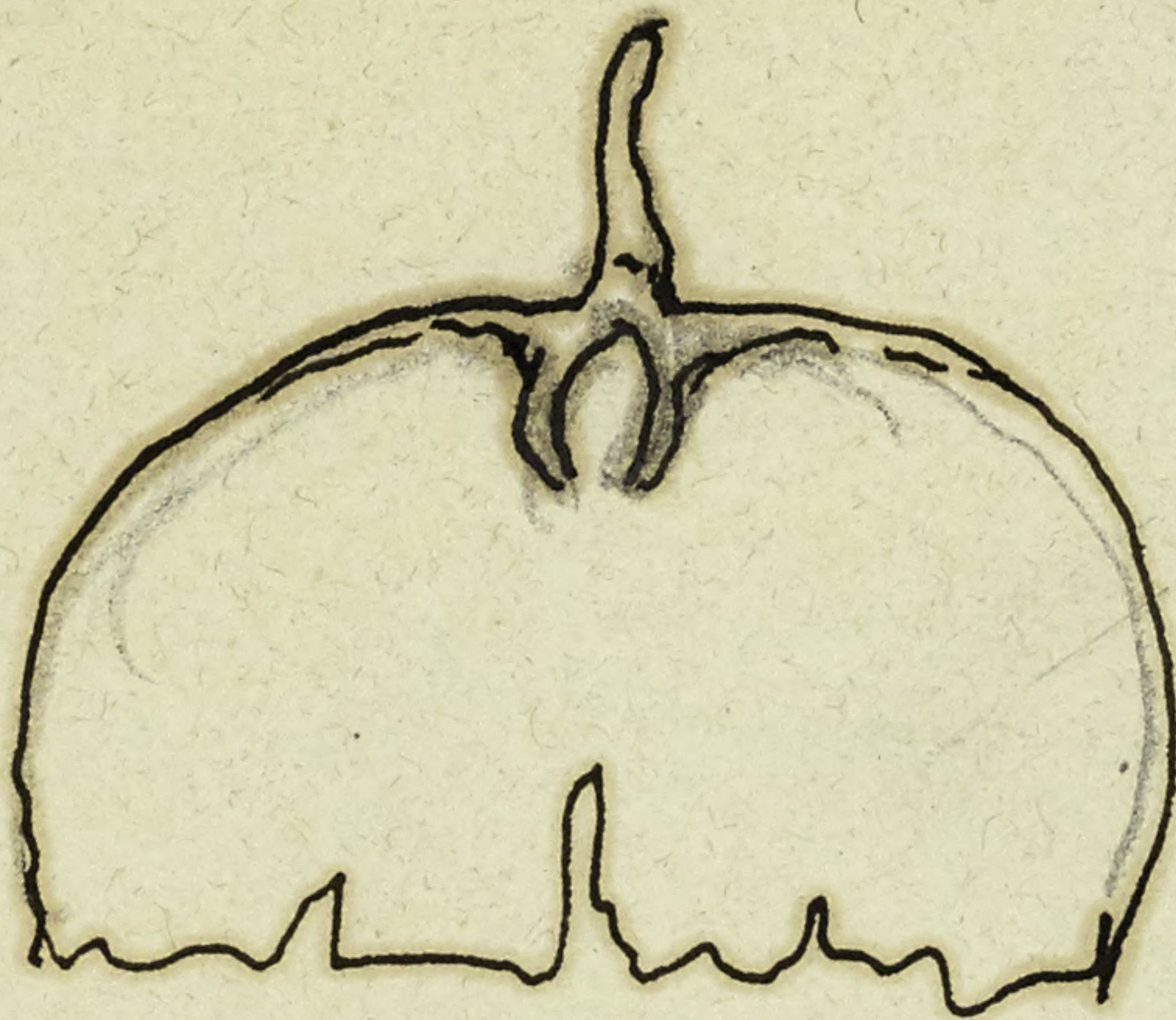


*C. pendulata*

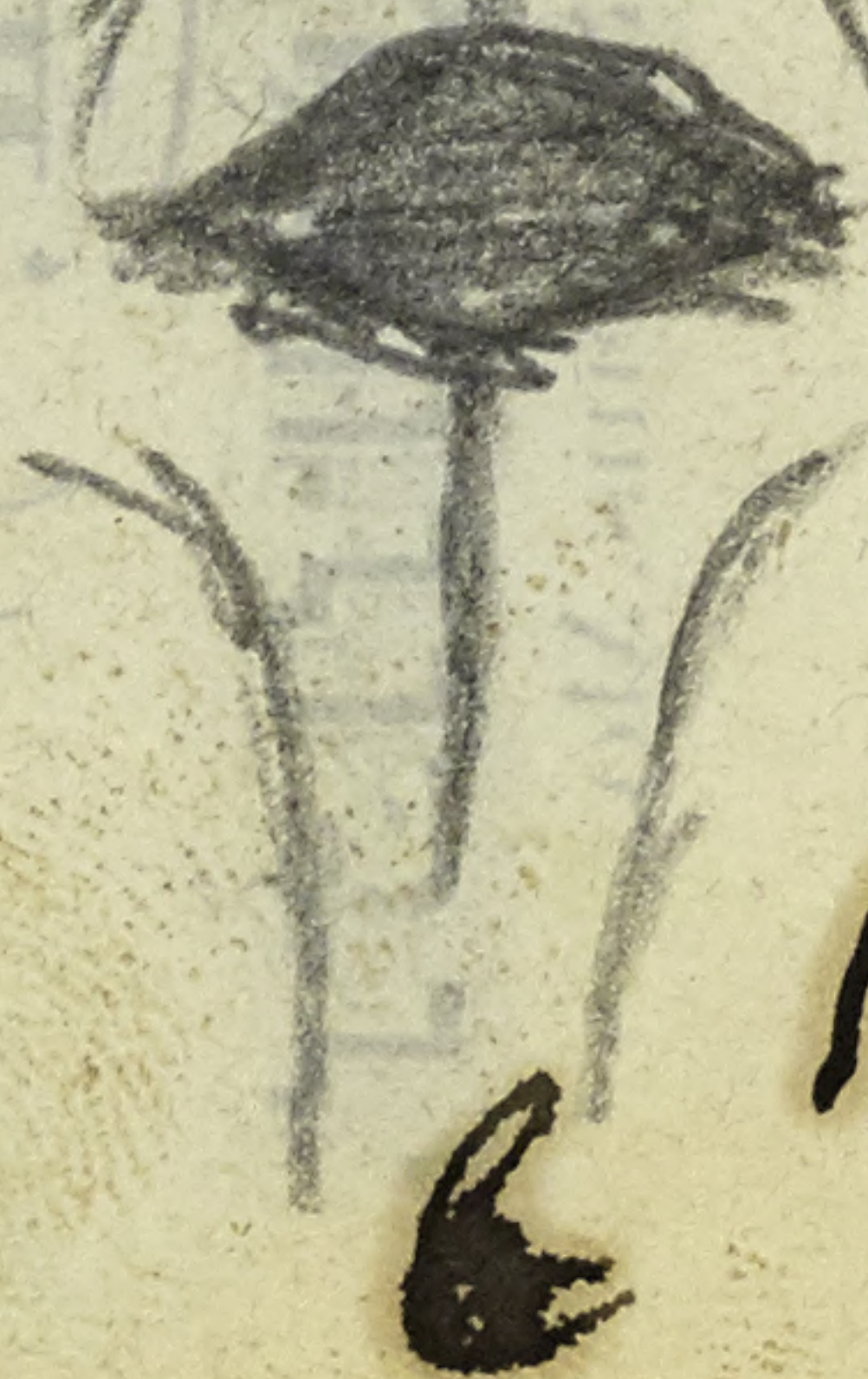
$\frac{9}{7}$  59



a



a. b. deep into  
or vault  
top of capsule  
seen from inside



b



bifid style  
dissepiments,  
divided contrary to  
the dissepiments of capsule,  
and united in the  
opposite sense



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



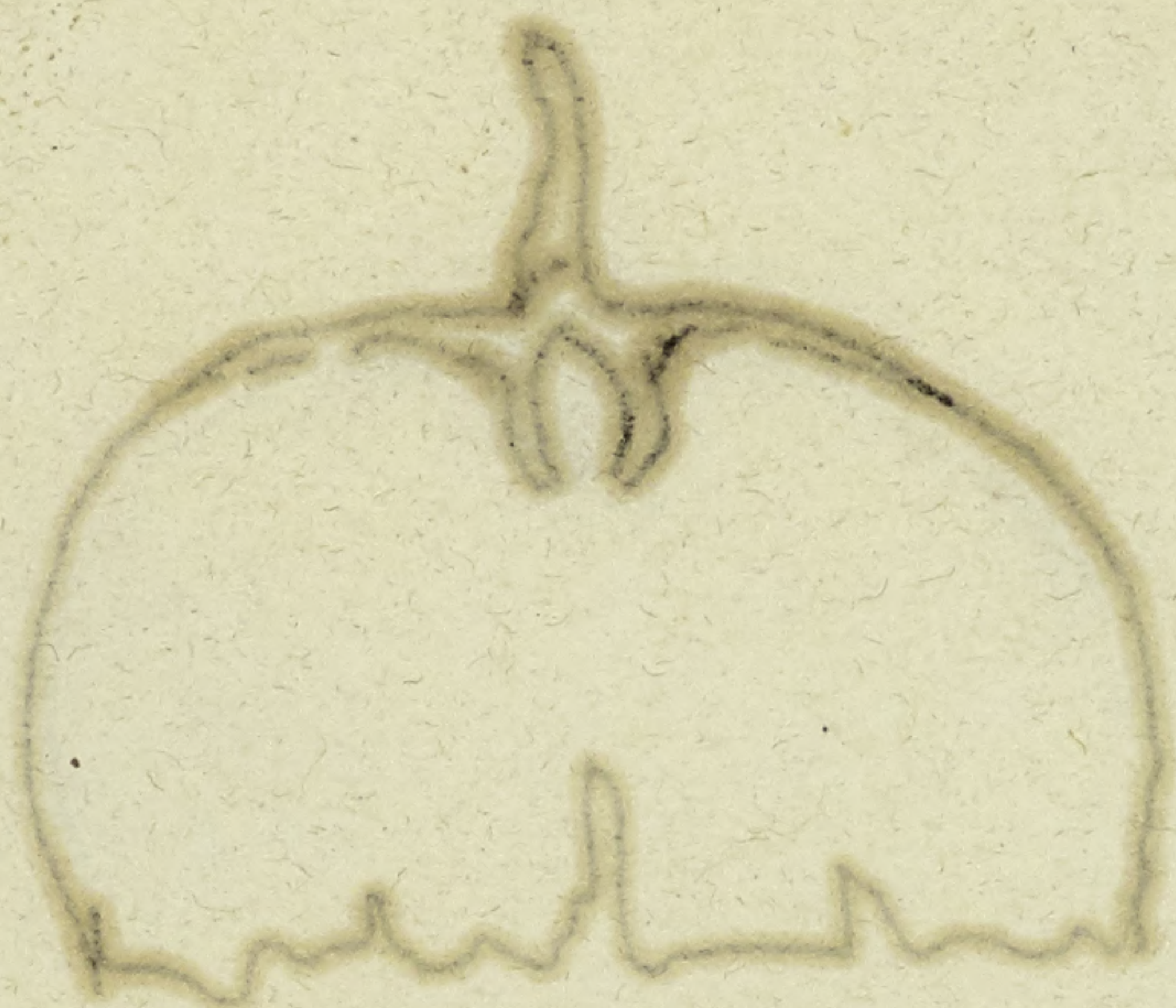
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BOTANICAL  
GARDEN



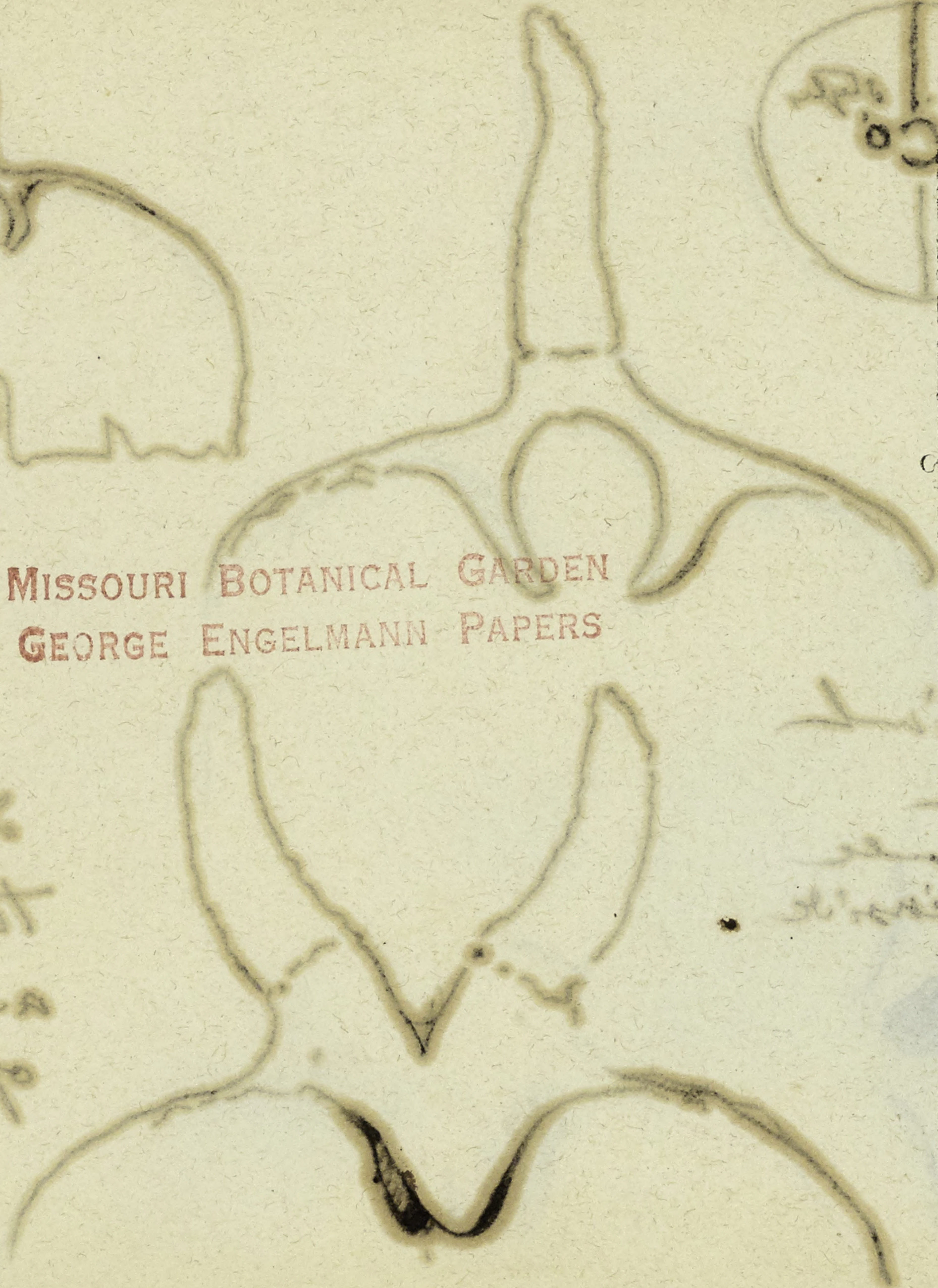
4519

*C. grandiflora*

*1/2 1/2*



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ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST

Marble Building, Cor. Fourth & Olive Sts., St. Louis, Mo.

*1/2 1/2*  
*1/2 1/2*  
*1/2 1/2*  
*1/2 1/2*  
*1/2 1/2*  
*1/2 1/2*



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cm

copyright reserved



MISSOURI  
BOTANICAL  
GARDEN



0.7

0.8



0.9

*Cucurbita pedunculata*  
Ledeb.!

Altai, on Galium.



0.4

*pedunculata*

floris laxae cymosae -

glomerulatae, pyramidalis perispermis

calyce hyalino 4-5 lobis, lobis

triangulatis acutiusculis s. obtusiusculis

non imbricatis;

corollae tubum vix aequantibus;

lacini triangulatis acutiusculis

repantibus; ~~etiam~~ brevibus;

antheris cordatis s. angulatis imbricatis;

filamentis subulatis aequantibus;

ovarii superiori parti tubi adhaerentis

quadratis deltoideis; stylis brevibus

attaccatis per totum stigmatibus; capsula

coriacea; semina asperis



2/3 19

rest. of capsule

showing both styles

as stylar part of dir. apt

the latter separating

usually no hole on top of capsule



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GARDEN



4520

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14

Curt p. 472

*C. Arabica* Fresen

*Carrot* ?

180

h.

180

181

182

183

— 6

332

(Enclosed 183-191)



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GARDEN



4521

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180. —



*Cuscuta Arabica* Fresen!  
 Benth. pro Fl. v. Aegypti pag 165  
 On Teganum, Chappel, May  
 5000 feet high

Corollae capillaris  
 Floribus laxius glomeratis  
 Breviter pedicellatis, 4-5 fidis;  
 Calycis ~~caespituli~~<sup>membranacei</sup> lobis  
 triangulatis tubum aequalibus;  
 laciniis ovatis triangulatis tubum  
 aequalibus; staminibus brevioribus  
 antheris cordatis sagittatis filamentis  
 subulatis brevioribus; squamis  
 seminis fibratis dentatis  
 apice incurvis; stylis ovarium  
 magnum aequalibus — stigmatibus?



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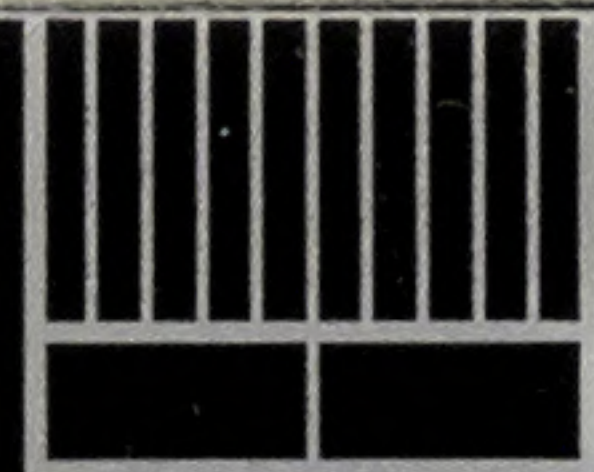
*Pres. nys: l.c.:*

*Cuscuta glomerulis paucifloris parvis  
fl. subsessilibus 5-partitis corollae calycisque  
tubo limbo breviori, genitalibus inclusis  
squamis apice fimbriatis, ramis capillaribus  
dense imbricatis.*

*Wells Arbores*

*"Narbon abarborescens"*

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GARDEN





Egypt.

Bové

(in Mus Paris)

Caulis foliiformis

(in diam)

Capitulis florum laxis glomeratis

flores pedicellatis (pedicello florum  
compressis) calycis hyalinis

seminibus 5-6 lobis triangularibus

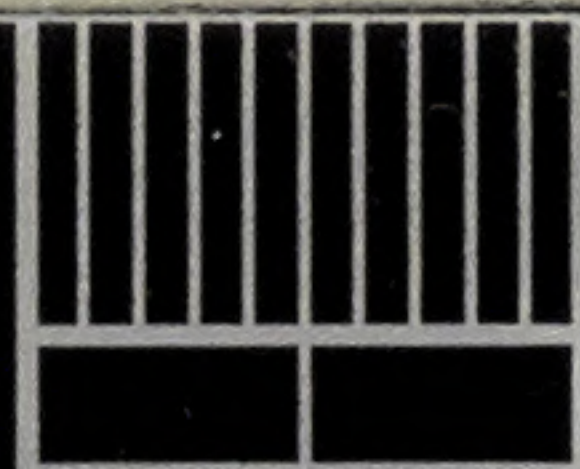
acutiusculis, tubum corollae aequalibus

laciniis triangularibus tubum aequalibus  
staminibus alternantibus periclybris brevibusantheris oblongatis filamentis subulatis  
brevibus; squamis fere sessilibushyalinis pinnatis fere sessilibus  
acutiusculis; - stylis brevibus,

supposition



style &amp; young fruit



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GARDEN



s. subnullis, stigmatibus terilibus attenuatis, divergentibus;  
capsula baccata. ! orific intra stylari majusculo stylis recurvis.  
(Corolla ad basin marcescente) sem. majoribus

Remarkable — root of the baccate Capsule —  
allied very nearly to *C. Kolochyana* (and apparently also to  
*C. berylonia*) — has the same short style, almost none  
and the very thin few teeth scales — We have no fruit of both  
the others

One of the *Afghanist* *Cucurbita* (Hb. Hook 25) also belongs here

MISSOURI BOTANICAL GARDEN  
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4523.



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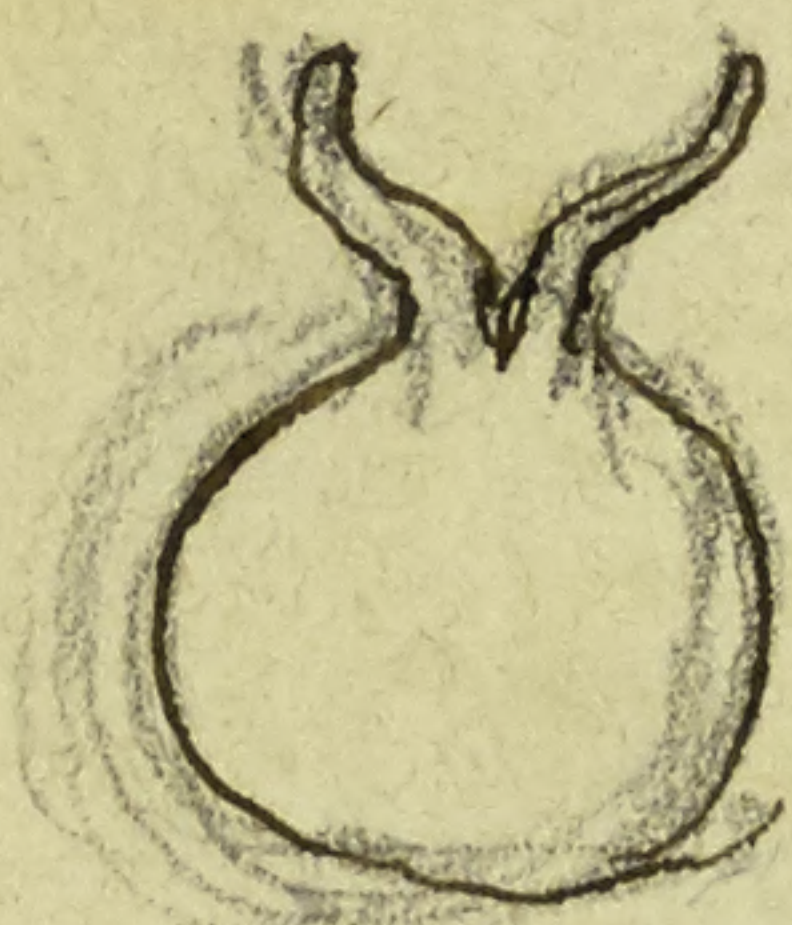
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BOTANICAL  
GARDEN



182

*Curatula strubida* ~~Fries~~Aucher Cloy Herb. J'Orléans  
1418

= Herb Hooker.



This is exactly the same plant as  
Bové's; stigma almost sessile;  
capsule apparently baccate,  
scales scarcely any,  
heads few flowered, with pedicels  
flowers. fl. per the 4 parts  
ovary very large, styles 2 in  
fact the whole ovary somewhat exsert.

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cm

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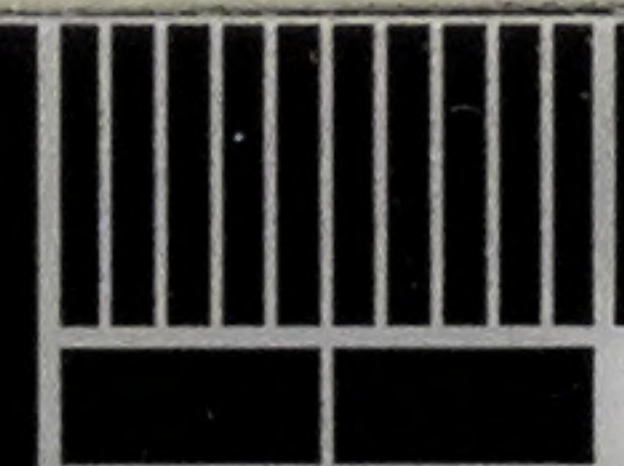
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4524

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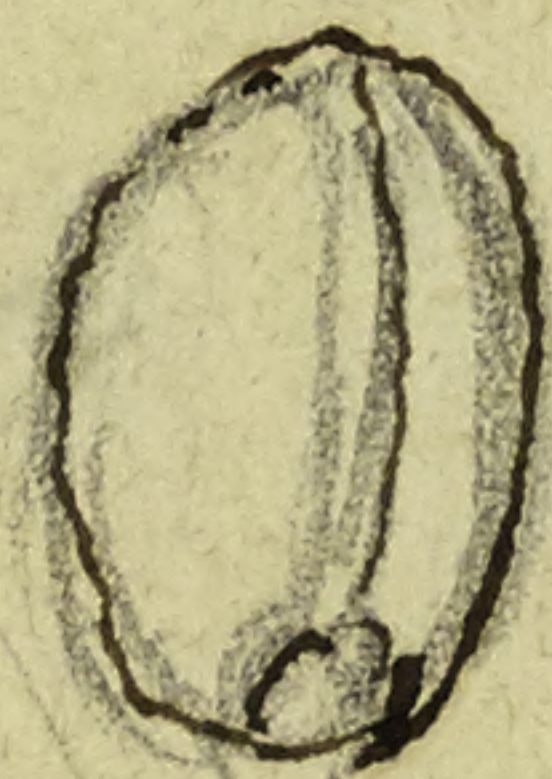
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183.



0.5



120 *Cuscuta Arabida Fris*  
*Beytrage zur Flor*  
*Raphidium, Arab. petraea*  
 near Mt Sinai

19 May W. Schimper.  
 on *Peganum*

Caulis papillares

glomerulis divisis

floribus <sup>breviter</sup> pedicellatis, lobis 5

calycis ad apicem diviso, tubulosis -

byalobis, lobis ovato triangularibus

acutiusculis; tubo aequantibus,

laevibus; tubo aeq. triangularibus

acutis, erectis, demum patulis,

basi ~~non~~ imbricatis; staminibus

brevioribus; antheris cordatis sagittatis

filamento tubulato brevioribus;



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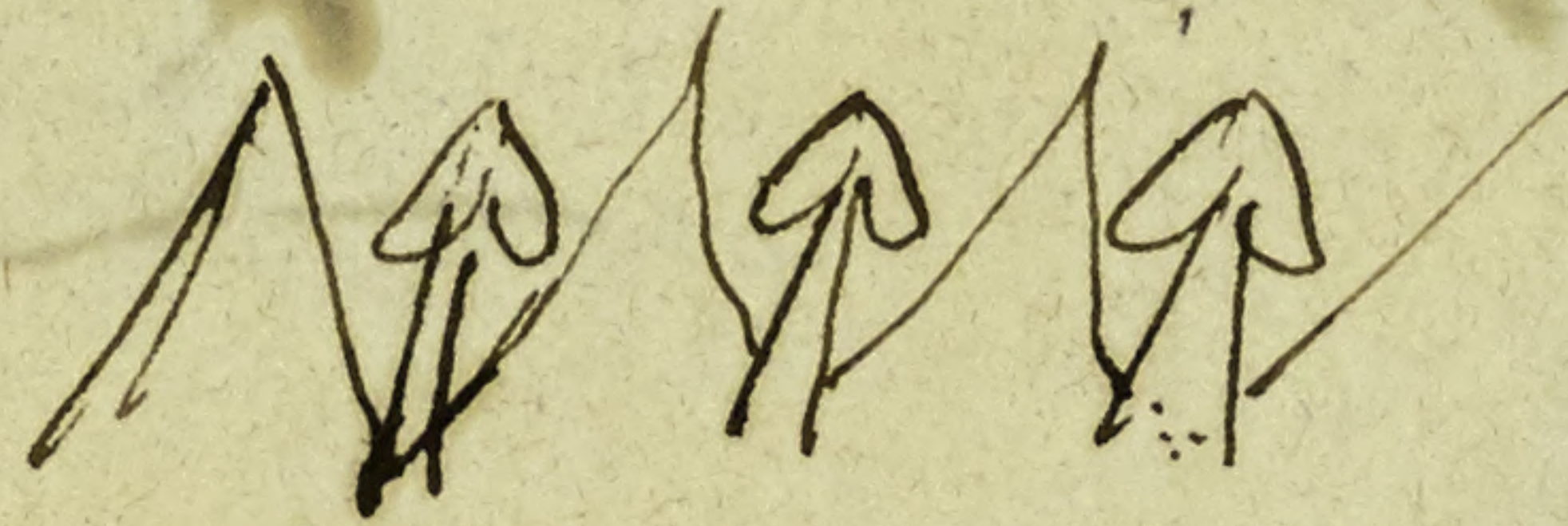
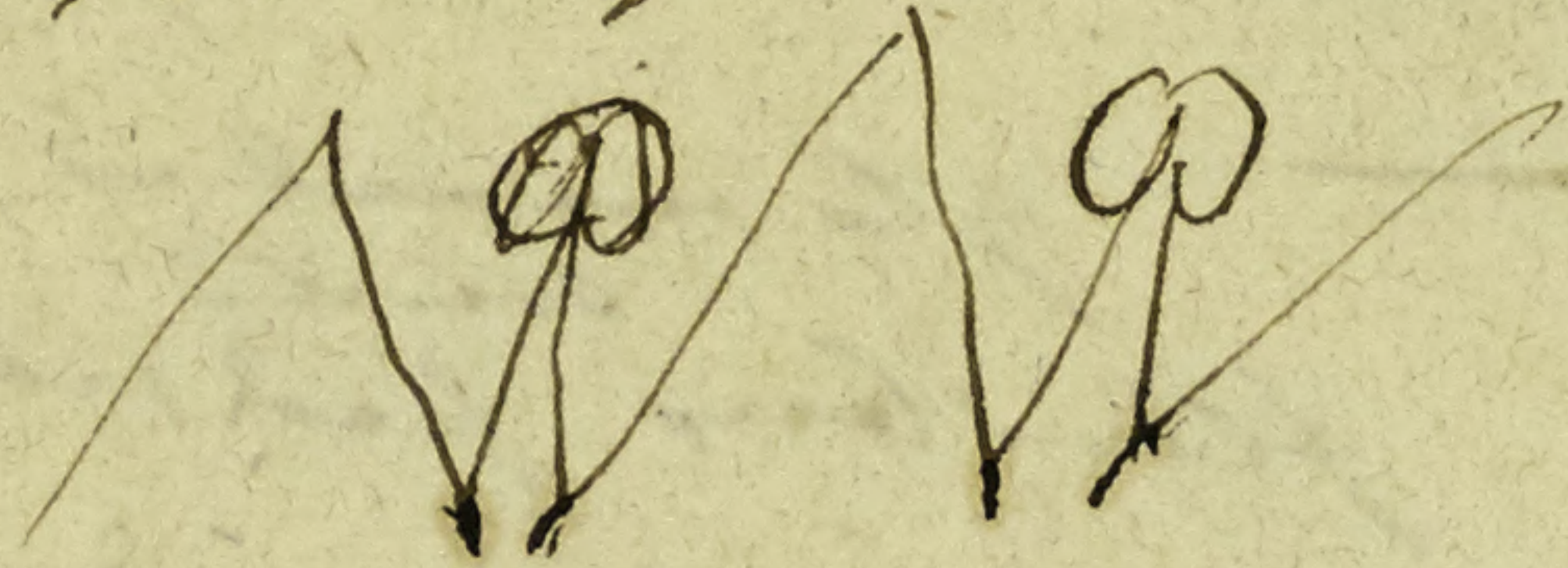
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 GARDEN



squamis variabilibus, magnis tub. totum involutibus  
 & ~~nervosis~~, angustioribus facere ~~saepe~~ excedentibus  
 dentata fimbriatis. stylis brevissimis, cum stigmatibus  
 longioribus attenuatis ovaria magna vix aequalibus  
 Capsula coram missa?

filamento subulato fauce inserto, non inter lobos  
 corollae interpositum

inside

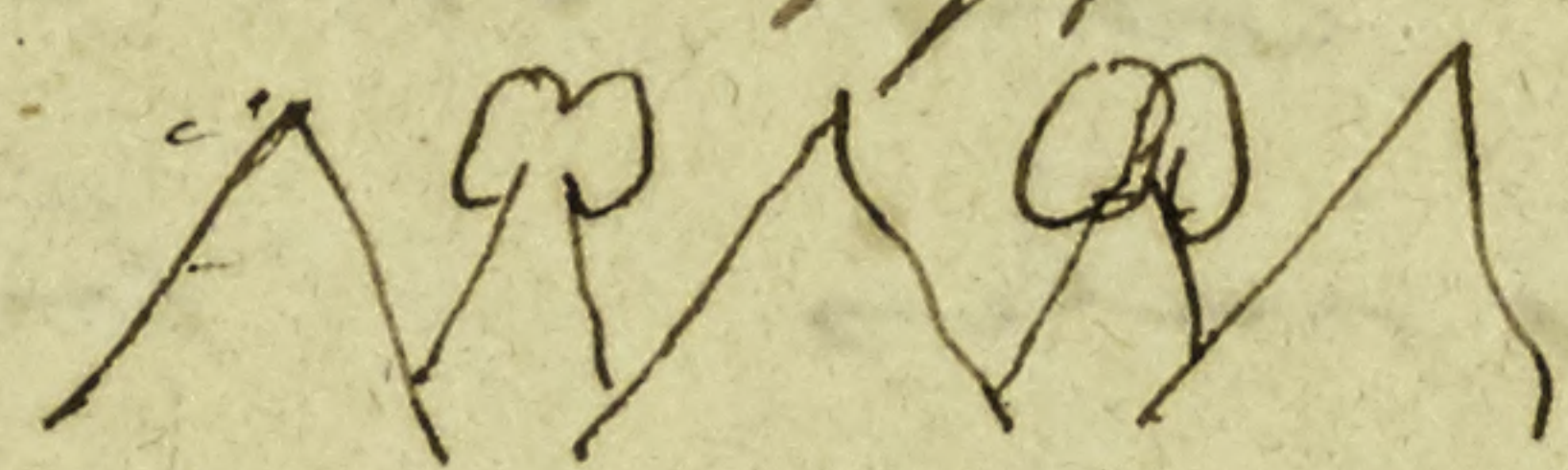


difference of  
 age?

Aegypt.

Arab.

back



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 GEORGE ENGELMANN PAPERS

4525



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183.6.

Cuscuta arabica Fres.

best description on No 183.

α. sagittanthera fl. breviter pedicellatis arctius  
glomerulis, antheris sagittato cordatis, acutiusculis  
squamis majoribus; capsulis circumscissis  
Schimper, Ruppel, Schimper <sup>Arabia petraea</sup> Yemen.

β. ovalanthera fl. distinctius pedicellatis laxius  
glomerulis, antheris <sup>rotundatis</sup> ovatis, obtusis; squamis  
subnullis; capsulis vix dehiscentibus, fere  
~~baccatis~~  
Hooker, Bove in Trifolium ad ...  
in (Alexandria) Egypt

verte



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GARDEN

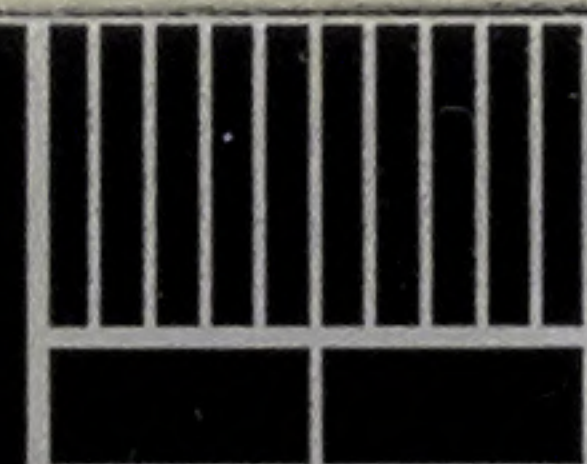


in herb. Mus. Paris I find a specimen of this  
plant, gathered by Dr. Lippi and preserved in  
the Herb. of Villand. with the remark:

"Cuscuta sulphurei coloris, aegyptia, flore niveo  
semine magnitudine in variis capsula variis"

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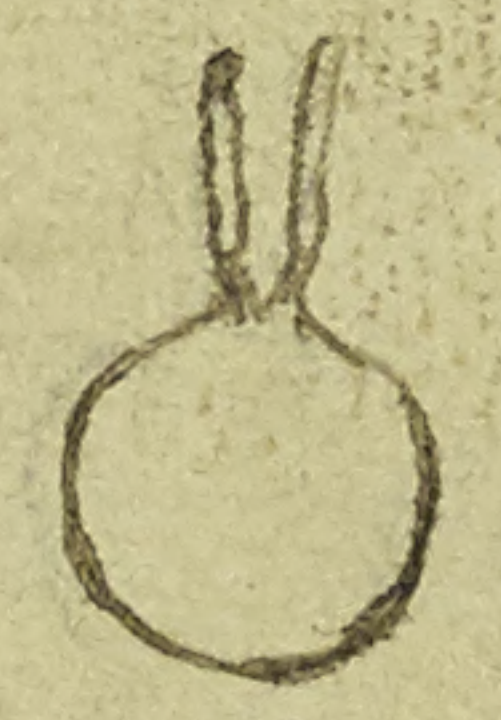
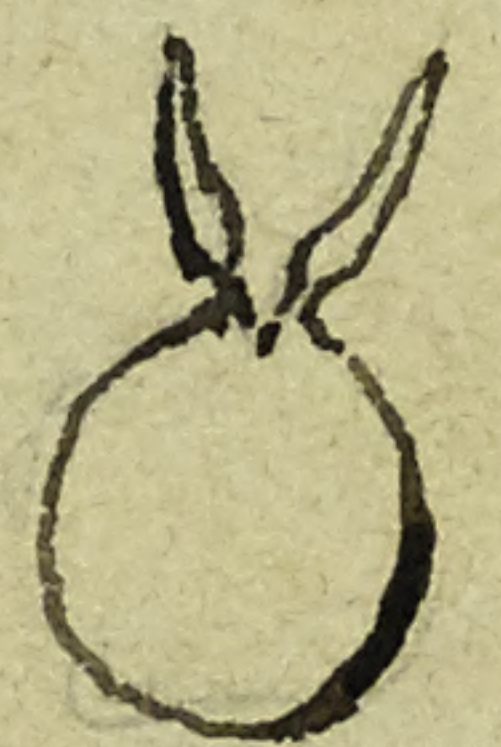


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GARDEN



9.

*Cuscuta arabica* Fres  
Sinai, Schimper



lobes of corolla  
greatly magnified

Mois 1843



0 1 2 3 4 5 6 7 8 9 10

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GARDEN



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GEORGE ENGELMANN PAPERS



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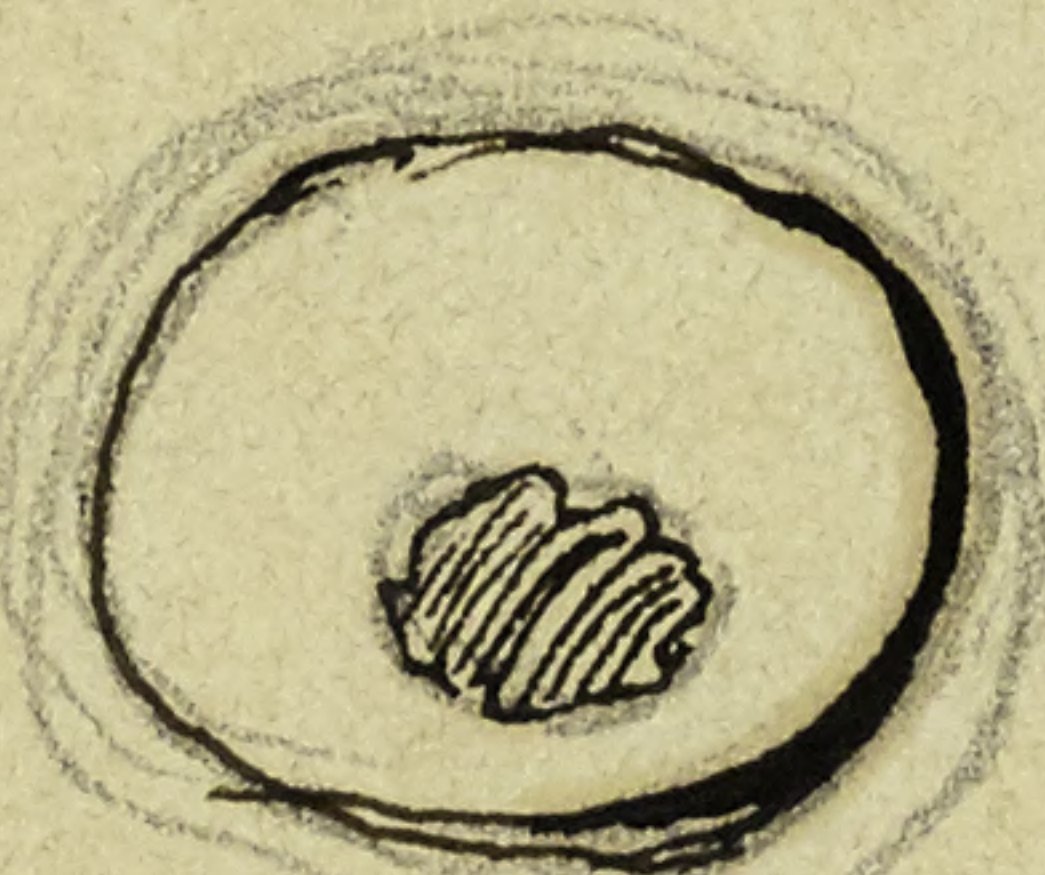
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Sheri Aug 1849



*C. Arabica*

Egyptus

S. Fischer.

Ex herb. Kew.

fruit calyx with remaining  
dissepiments of Capsule.

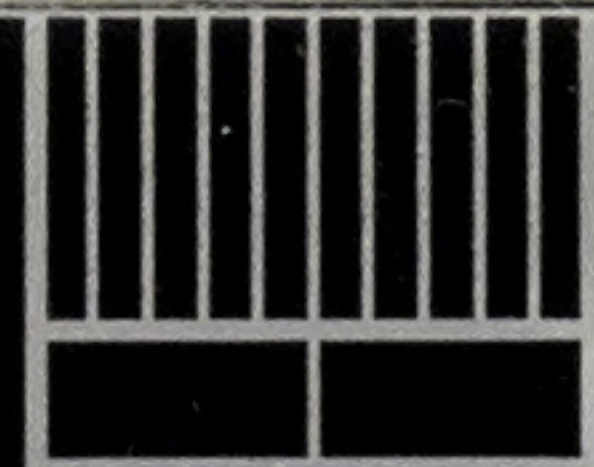


capsule with  
two

Capsule at full maturity  
separating, leaving  
very distinct, slightly  
emarginate dissepiment.

Stylar portion of dissepiment  
(Therapy to base of style)

small at last separating and  
opening into the Capsule.



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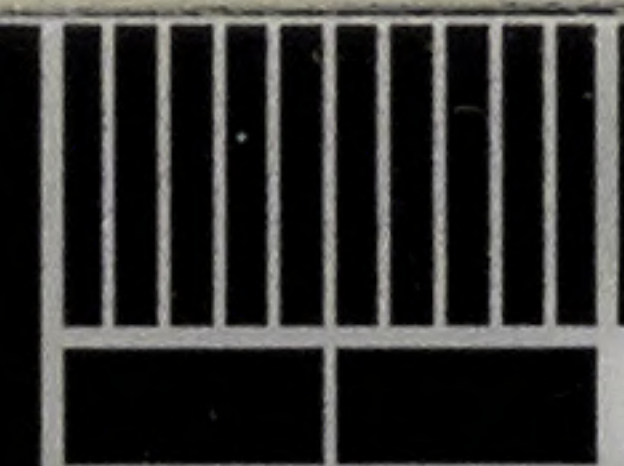
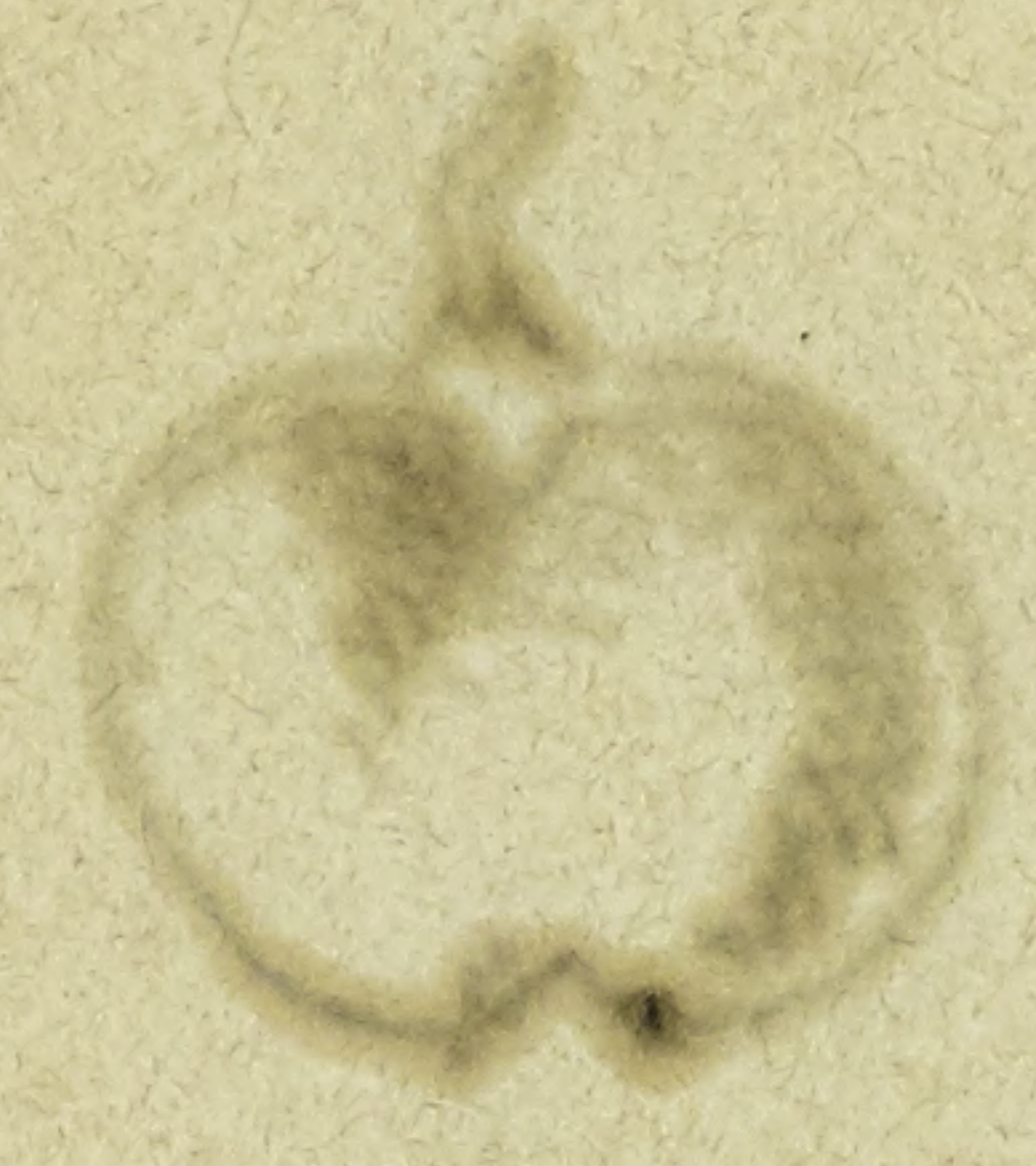


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GARDEN



4528

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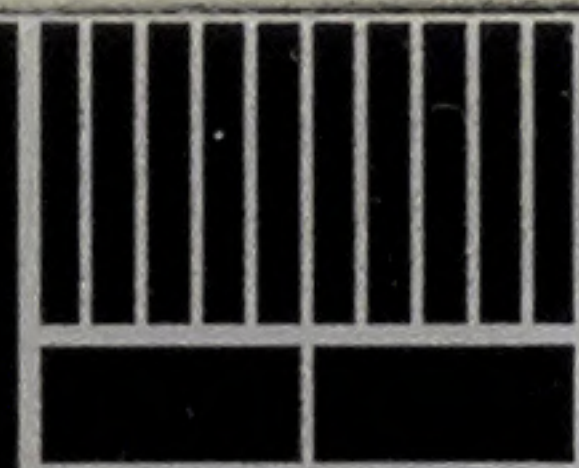
MISSOURI  
BOTANICAL  
GARDEN



h

*Cuscuta*  
Aucher Eloy  
Herbier d'Orient  
1418  
Hook. Herb. 15.6

St Louis Dec 1846



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MISSOURI  
BOTANICAL  
GARDEN



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MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



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BOTANICAL  
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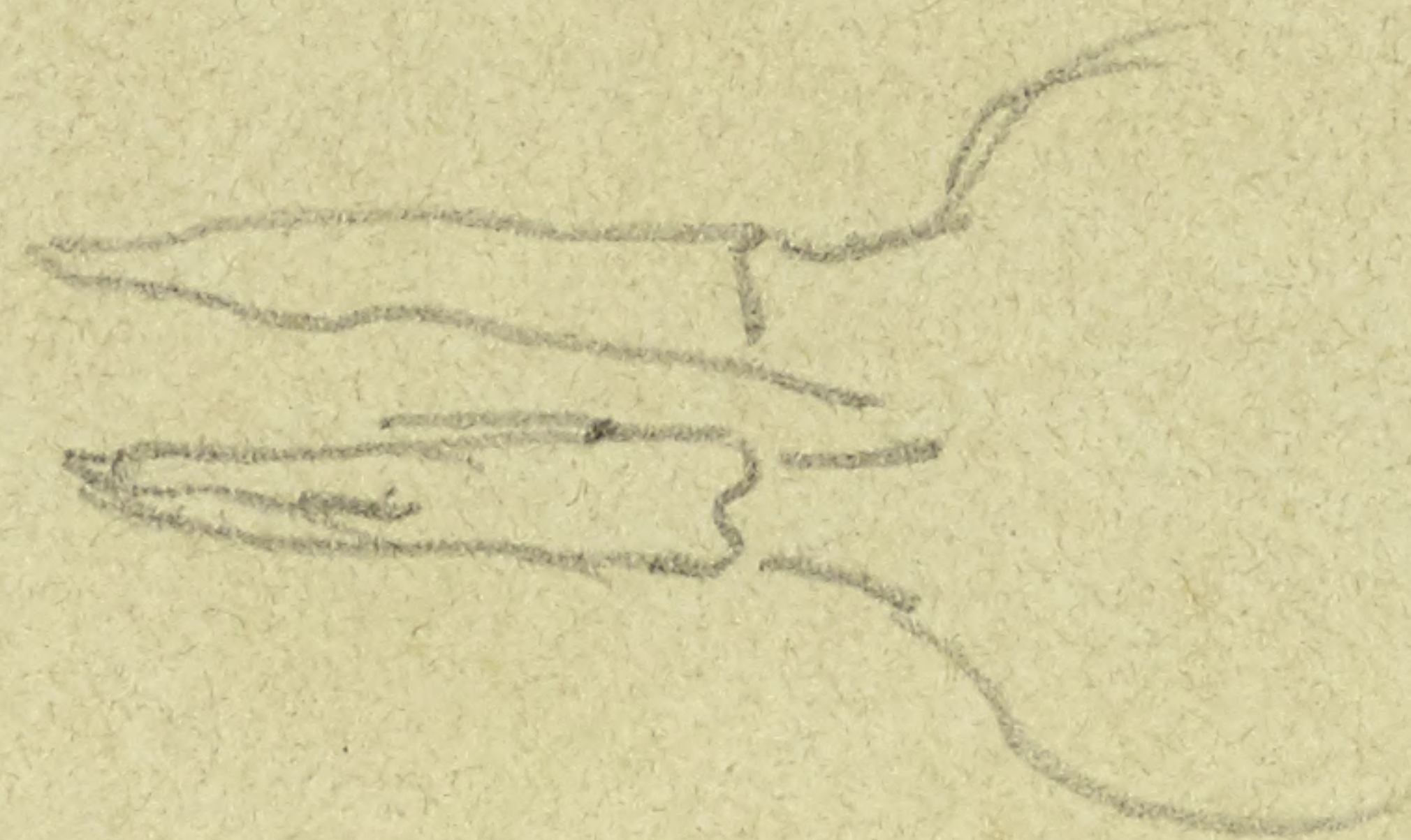
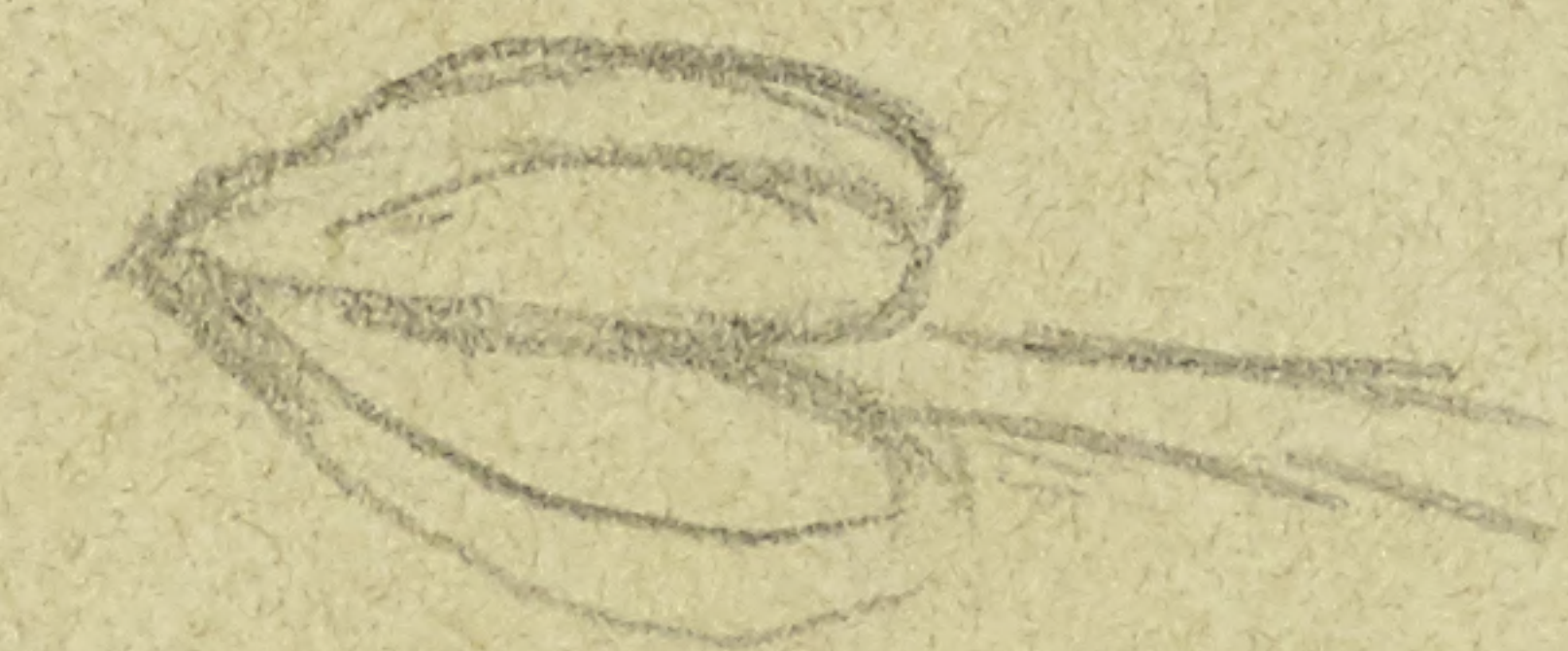
*Cuscuta Arabica* !*H. minoribus* 4 f. d. i. subsessilibus

Egypt.

Dr. Sch. Fitch

= Hb. Kewensis

(the

the styles decide the question  
the flowers otherwise resemble  
much *C. planiflora*.

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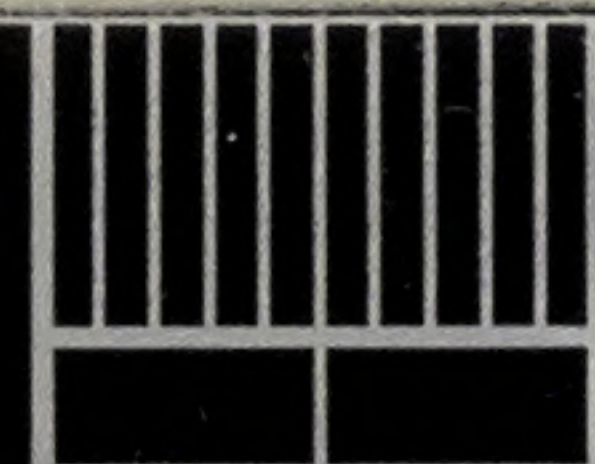
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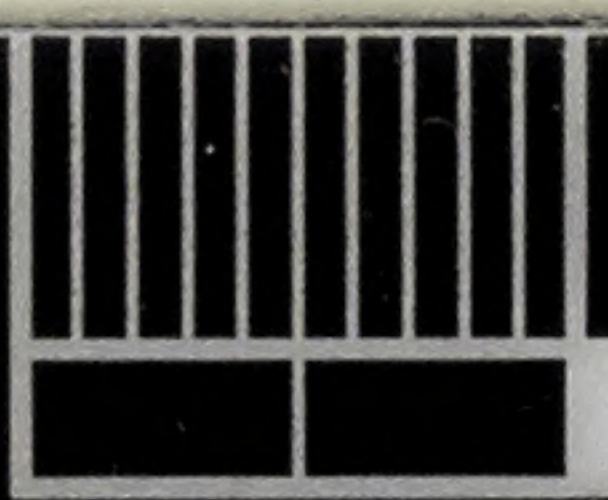
Cuscuta pag. 471

A Cuscuta

2. *Epistigma*

sp. 11-14

(This folder enclosed sheets 173-191)



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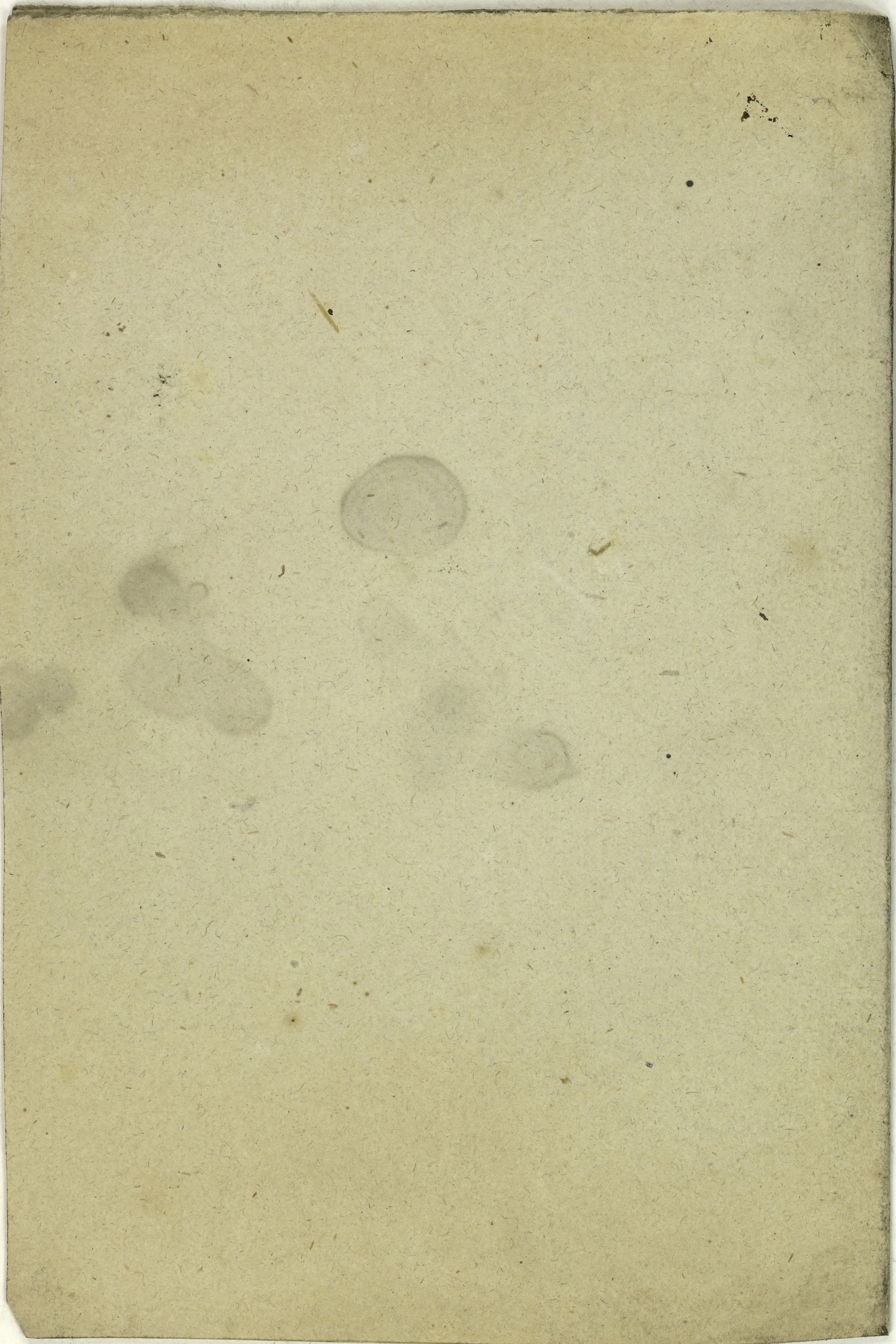
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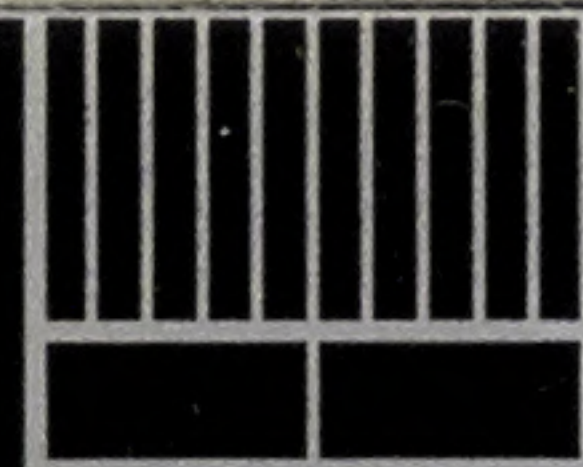
*Cucurbit alba*  
var. *multiflora*  
on *Spartium congestum*

Cumbre de Tejeda

Gran Canaria

Dr Ch<sup>l</sup> Bolle  
May 1856

Caule filiformi; floribus sessilibus  
arte glomeratis, glom. multifloris  
calycis <sup>5</sup> perianthii lobis  
oblongo-lanceolatis, versus apicem bullatis  
tubo corollae multo longioribus; laciniis  
tubo brevioribus, obtusis, apice bullatis  
nodosis, erectis; stam. brevioribus,  
antheris oblongatis filamentis aequatis  
seu longioribus; squamis faucium  
aequalibus fimbriatis incurvis;  
stylis brevioribus; ovario magno palea  
longioribus capsula parva <sup>aequalibus</sup> depresso



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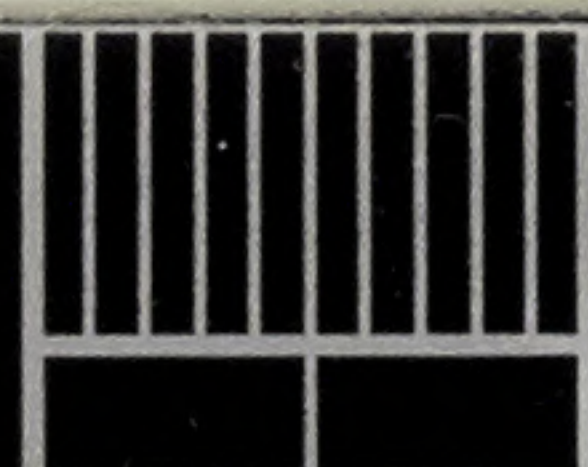


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Cuscuta Epiplovum Webb Mus

Zeniffa

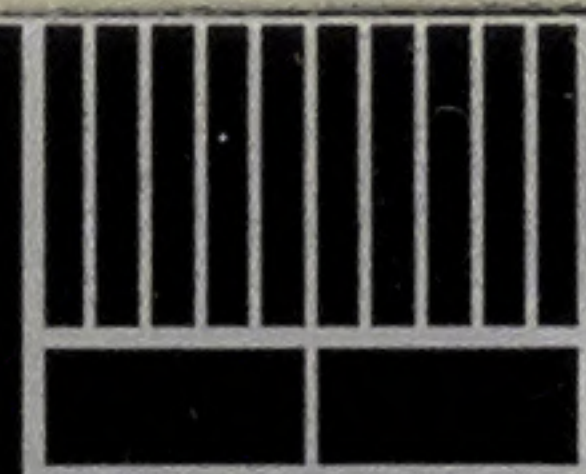
Bourgeon 1855

Ex herb. Grisebach

This is the same plant as 174 & 175 -  
and rather intermediate between the two  
as regards the divisions of the Calyx, it  
is divided to the middle - Style  
stigmatose to below the middle

It is also intermediate  
in regard to the fuses or nodules  
at the tip of the ovary

over



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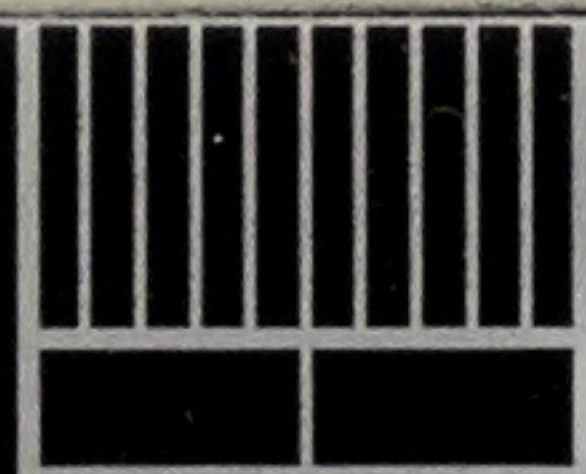


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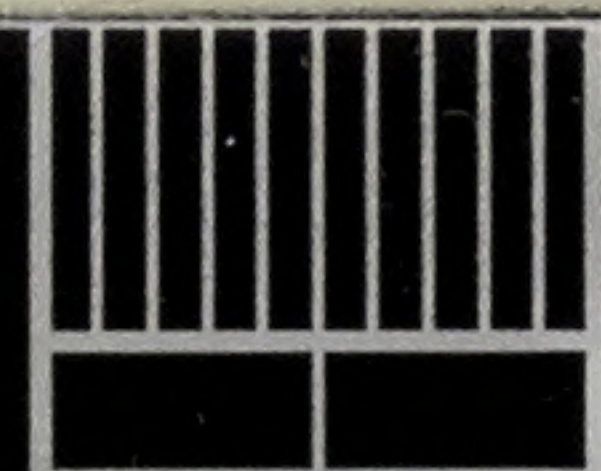


*Cuscuta canariensis* Chois mss  
 - herb Mus. Paris

*Femurifera*

Decade mis. 1845

This is again the same plant, and in fact the only  
 one which I have seen from the Canaries! (May 12<sup>th</sup> 57)  
 In this specimen the flowers are small, only divided  
 to the middle or below; corolla almost obliterated



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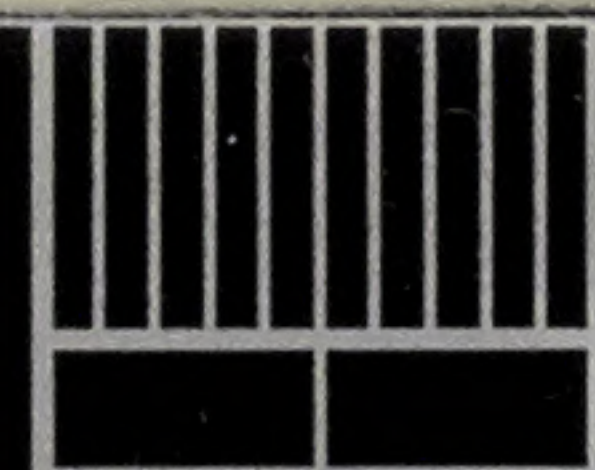


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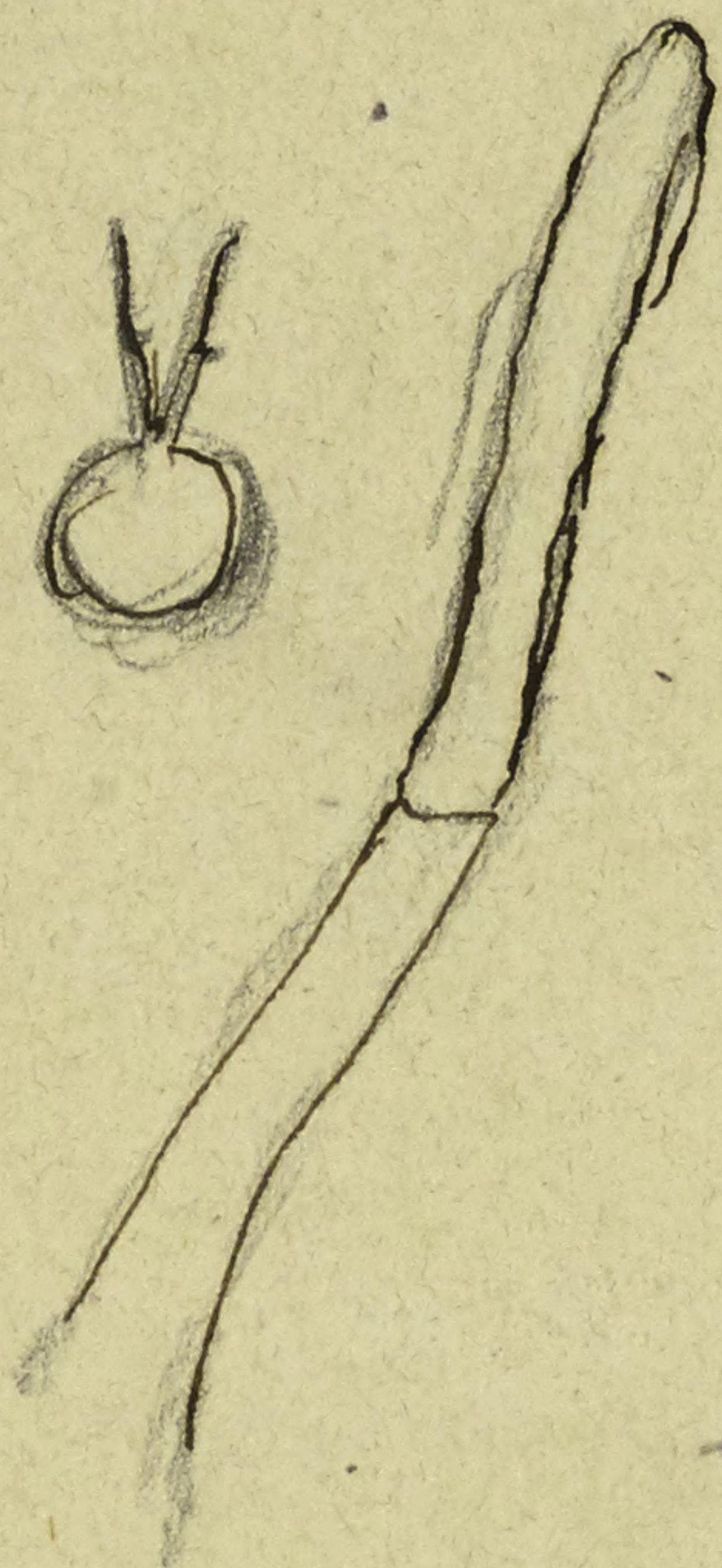


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18686

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"Curvata Epithymum"  
 "Purici Dr. Helfer 1831  
 in Herb. Vindobon

This is the form with deeply notched  
 Calyx, and very turned lobes;  
 anthers acute; stamens all  
 most as long as lobes of  
 Corolla; ~~with~~ styles longer  
 than thick ovary very slender  
 and stigmatose to the middle

Hooker Herb. B. C. Palenova; is the  
 same thing - scales perhaps smaller, thin;  
 styles compound, fl. often 4 parted



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Cucurbit Epiphyllum

Malaga

ex Hb. Boissier  
in Hb. Wundt

Glomerules even in fruit not  
more than 2 l. in diameter  
seeds subglobos — styles  
not seen. — anthers not  
apiculate; flowers often  
4 parted.



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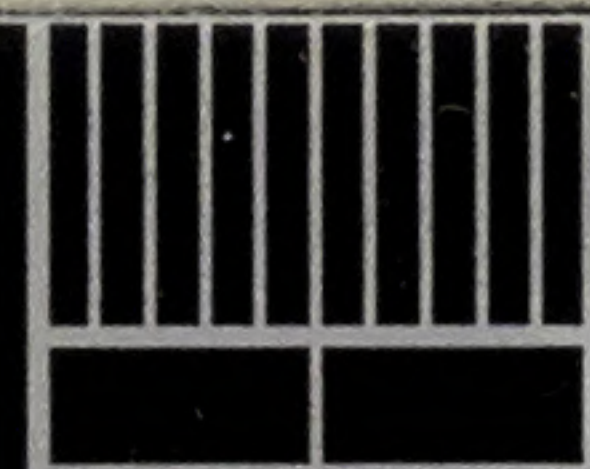
*Cucurbit alba*

Corsica, Thomas

— Herb. Hook. G. a

is the same as the other small mediterranean  
forms — turned points of petals  
not so conspicuous. anthers slightly  
pointed, lobes of Calyx broad, united  
to the middle, rather obtuse

*C. alba*, Dr Smith. Hb. Hook G. C. lobes of Calyx still  
more united, obtuse, — scales very thin, & spread



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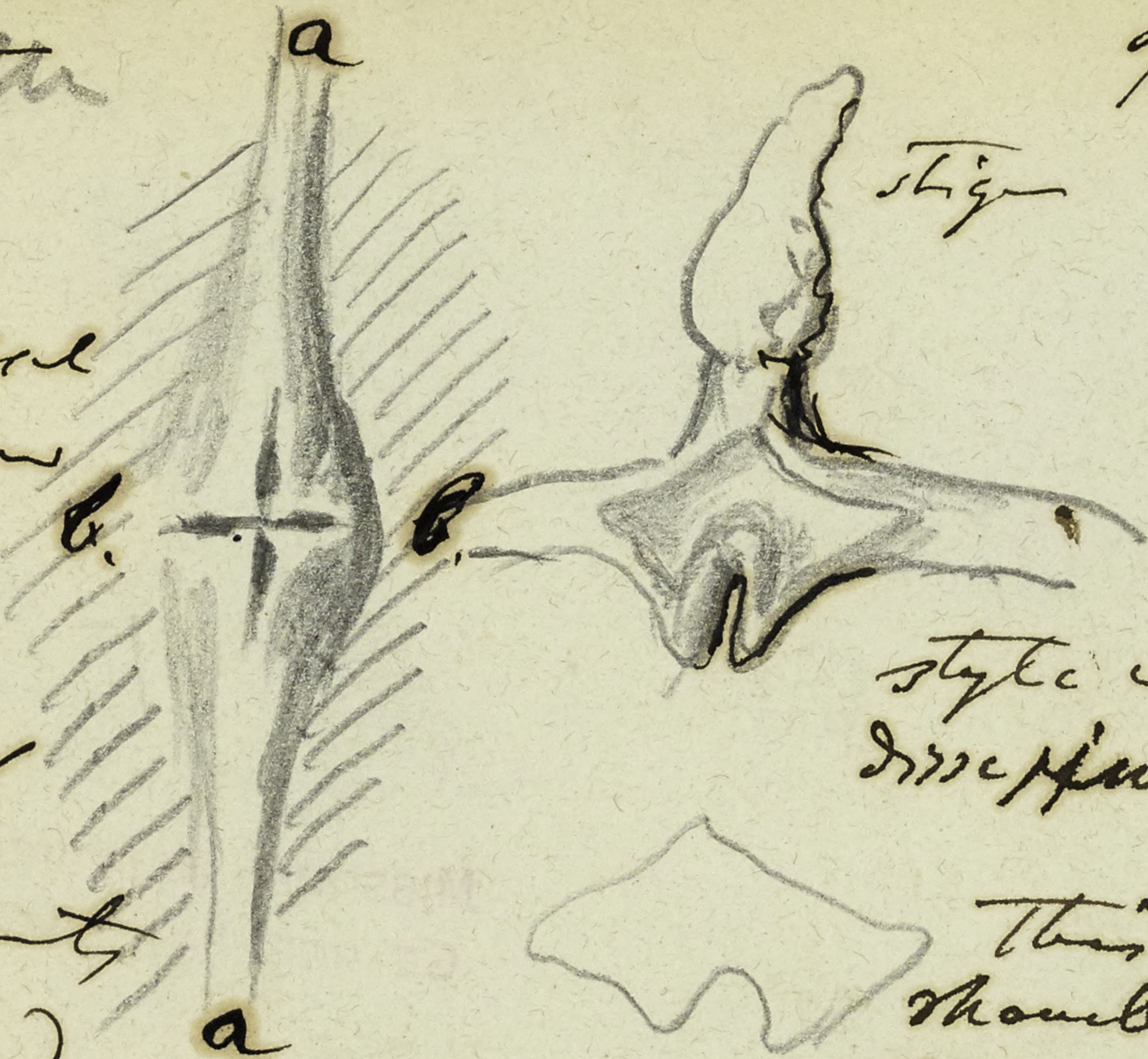
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C. Epithymum

9/7/9

Top of Capsule  
seen from below  
showing the  
4 slits  
separating both  
stylos & deppia  
(with direct-aa)  
and splitting each one  
(in the direction bb)  
tips cohering



Stylus

style with  
deppia



There  
should be  
space in

all that separates  
in the ripe capsule  
forming an opening  
between the styles  
which does not occur  
only by 4 slits present  
in the capsule



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ALEX. LEITCH,  
APOTHECARY & PHARMACEUTIST

Marble Building, Cor. Fourth & Olive Sts., St. Louis, Mo.

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